



- More complex discussions
- Harder to publish
- Influential minority





# Analysing decision making in the IETF

#### Published work:

- P. Khare, M. Karan, S. McQuistin, C. Perkins, G. Tyson, M. Purver, P. Healey, I. Castro. "The Web We Weave: Untangling the Social Graph of the IETF". AAAI ICWSM, 2022.
- S. McQuistin, M. Karan, P. Khare, C. Perkins, G. Tyson, M. Purver, P. Healey, W. Iqbal, J. Qadir, Ignacio Castro. "Characterising the IETF Through the Lens of RFC Deployment". ACM IMC, 2021

IESG Open Microphone Session

Project:

Two minutes per question Two minutes per answer

• SODESTREAM: Streamlining Social Decision Making for Improved Internet Standards (<a href="https://sodestream.github.io">https://sodestream.github.io</a>)







Draft proposal

**Draft** adoption

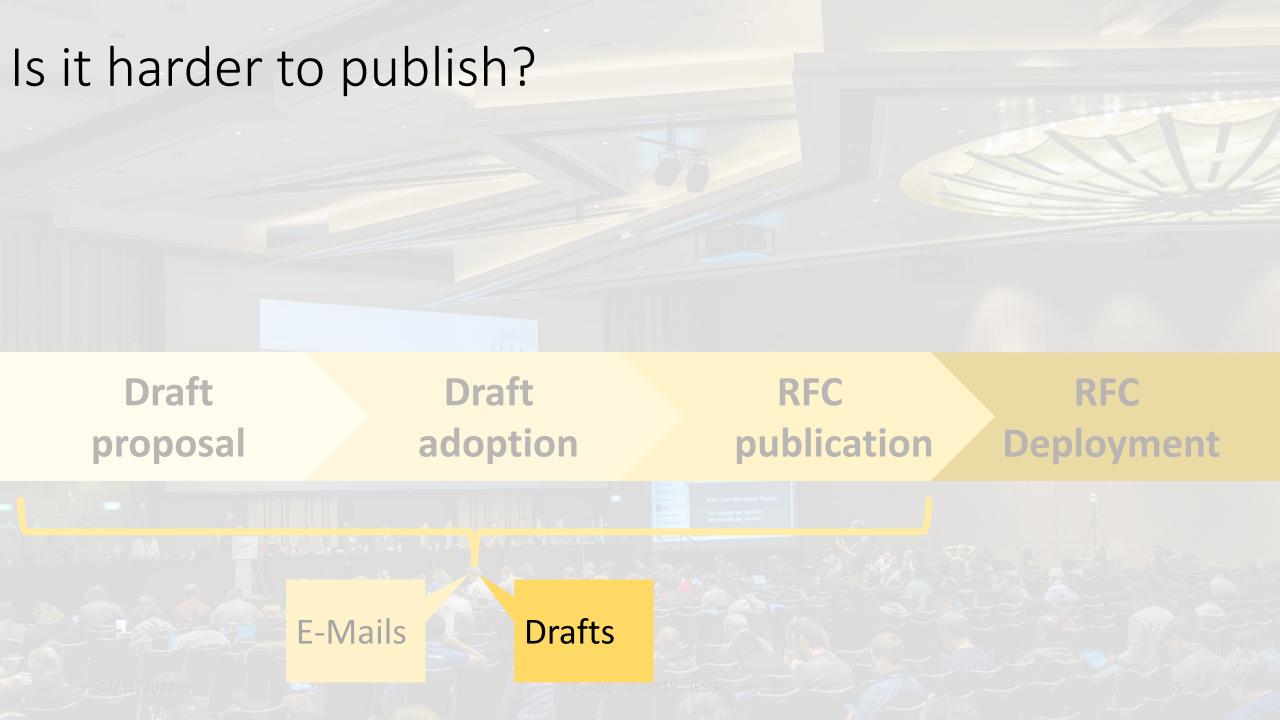
RFC publication

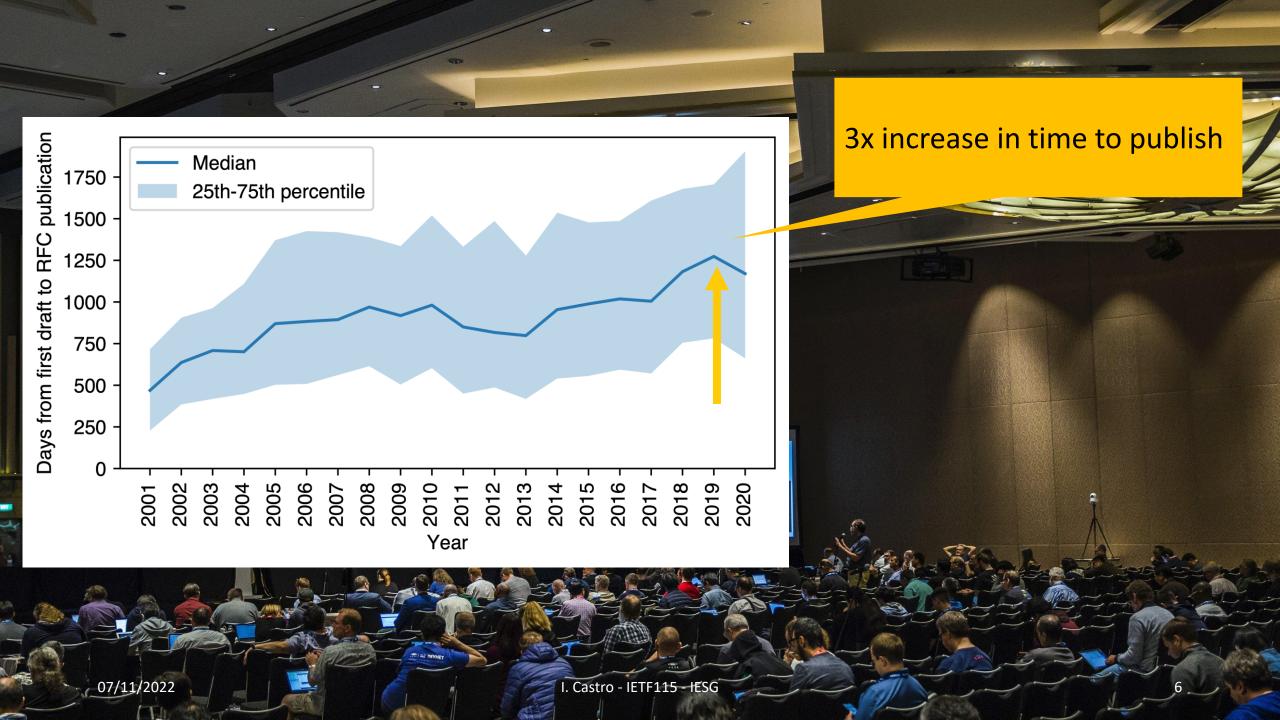
RFC Deployment

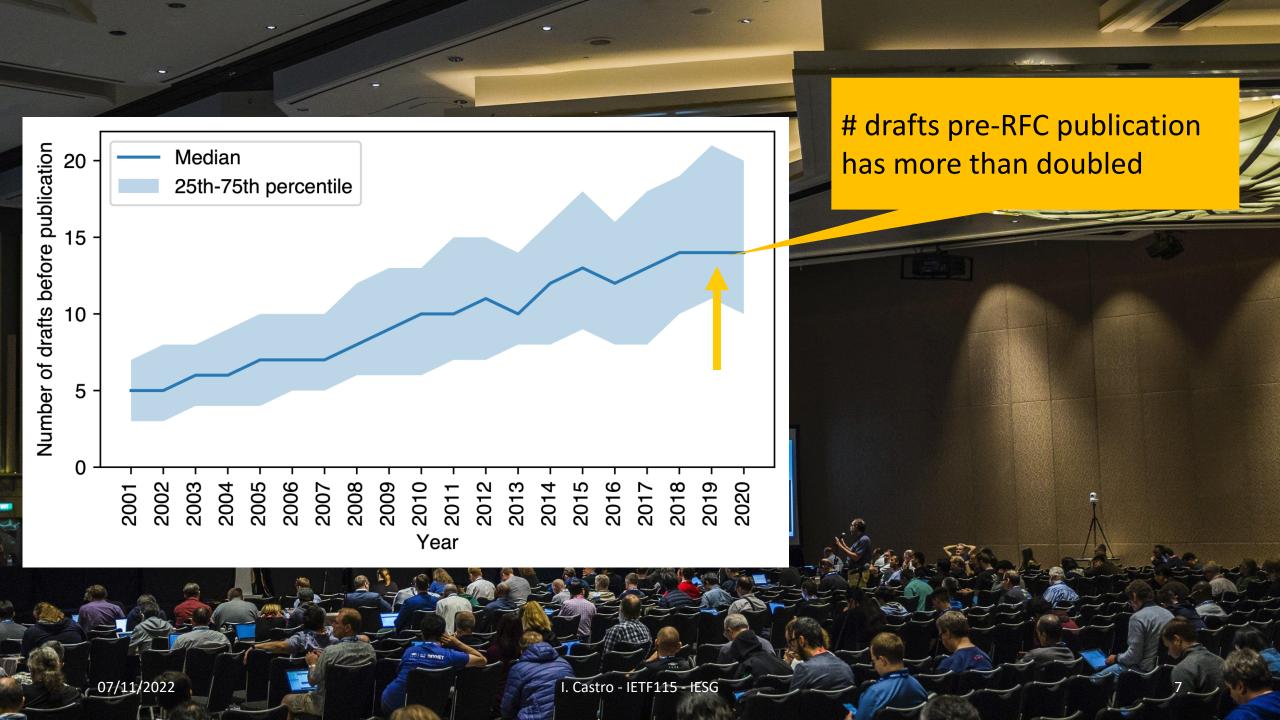
emails

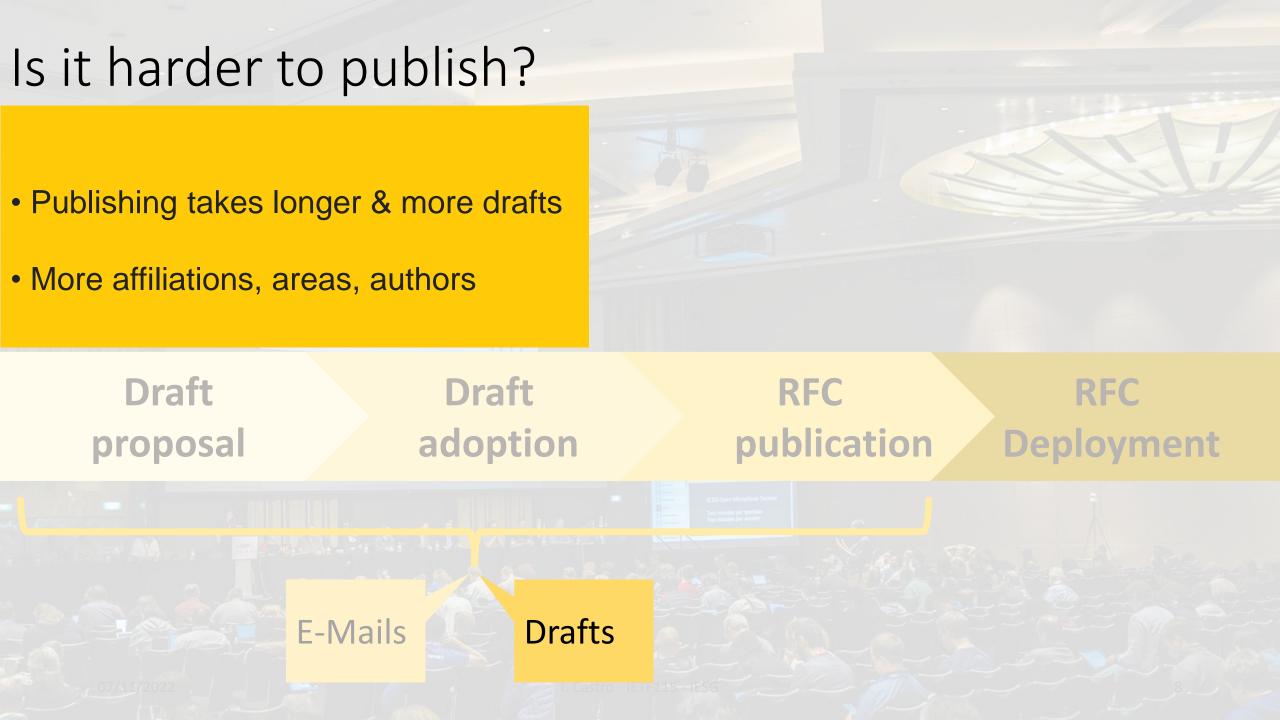
drafts

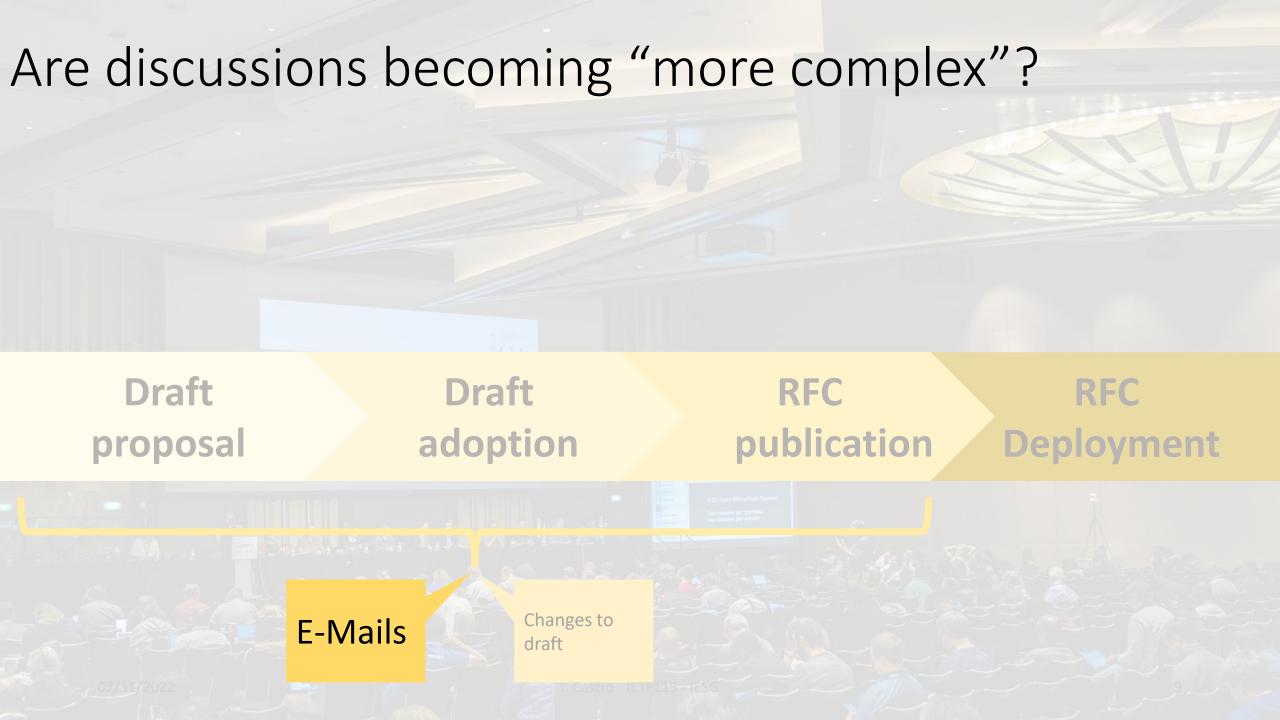
\*Disclaimer: (slightly) different periods of analysis

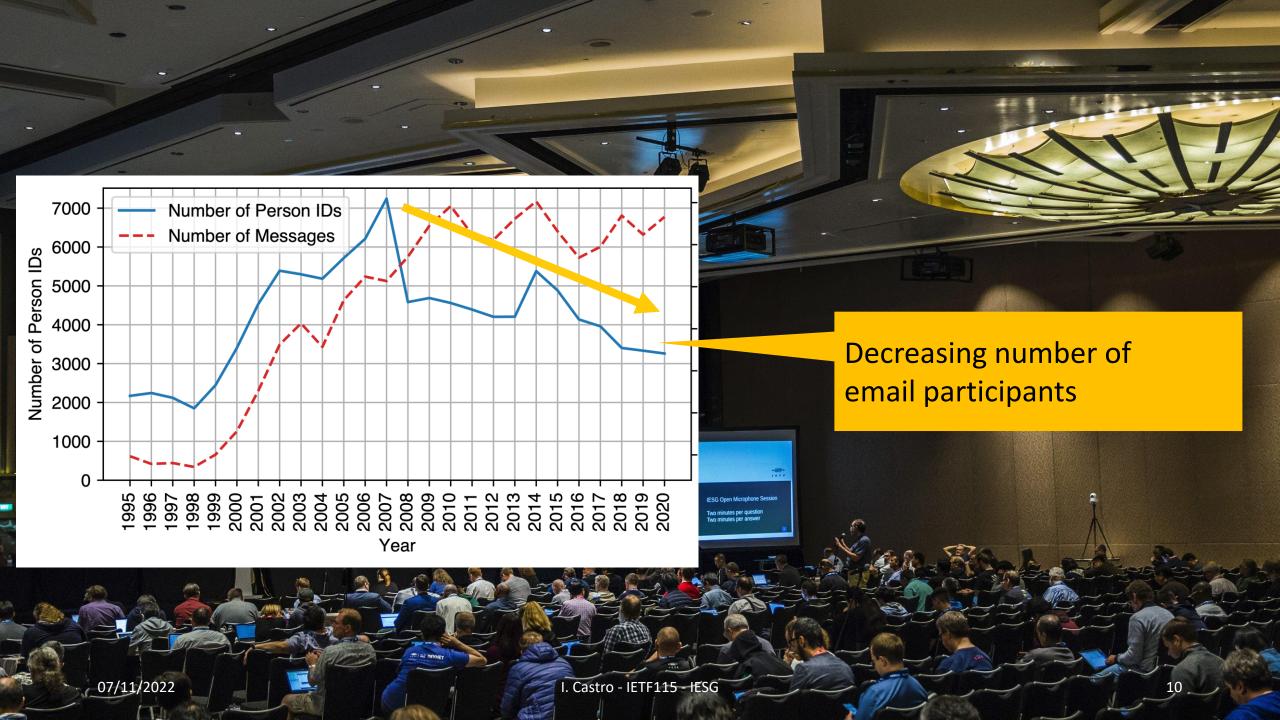


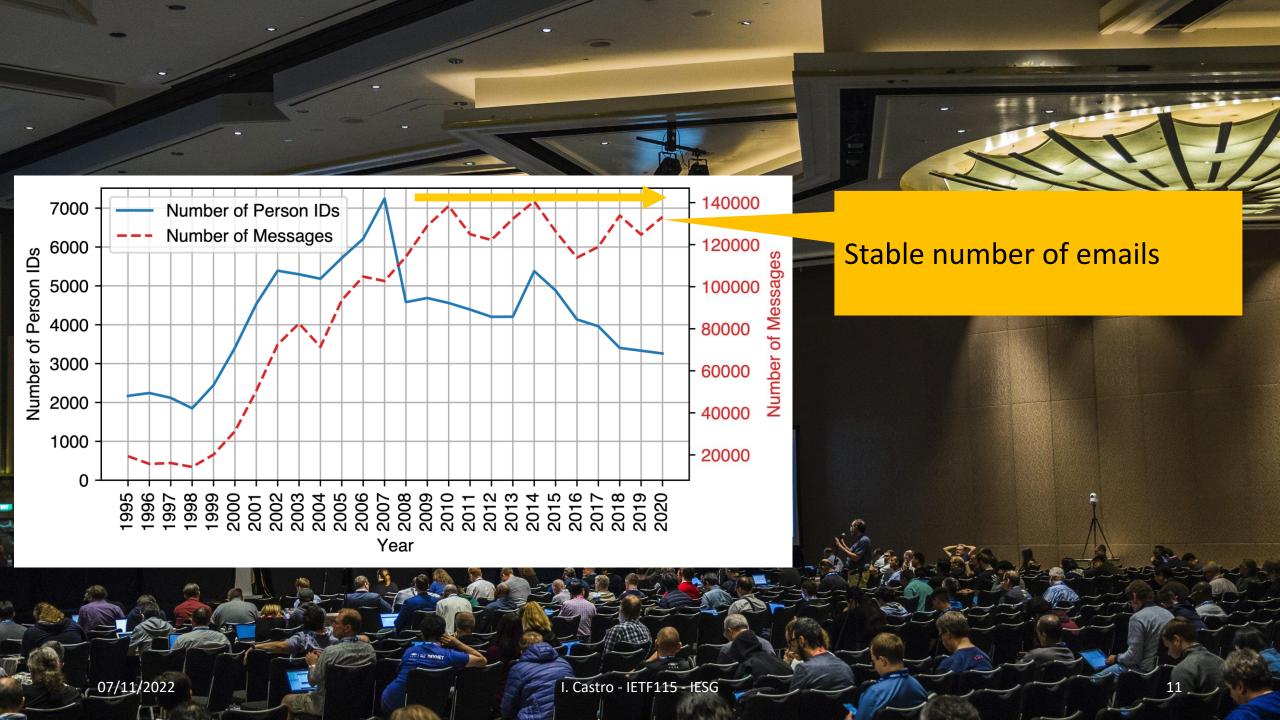


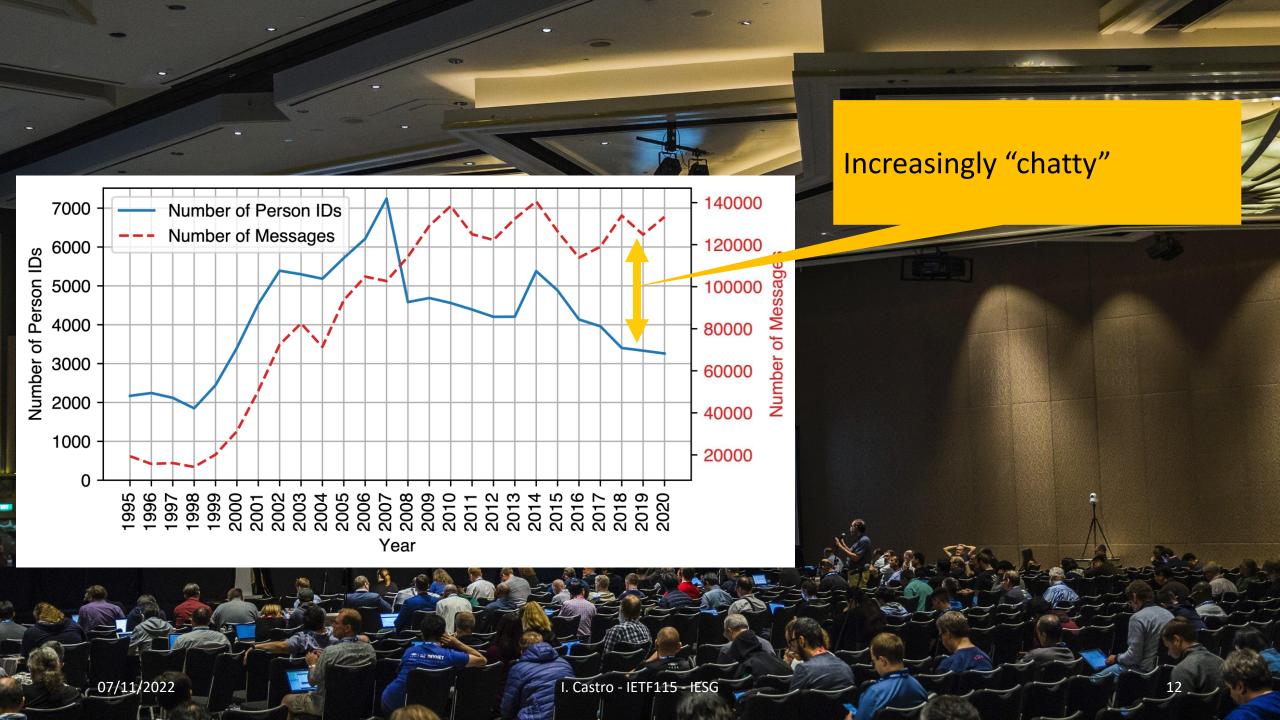


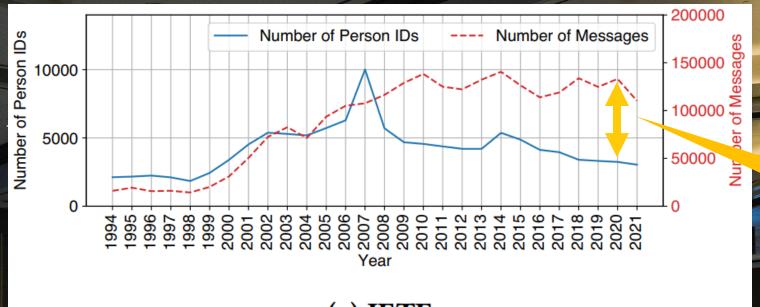




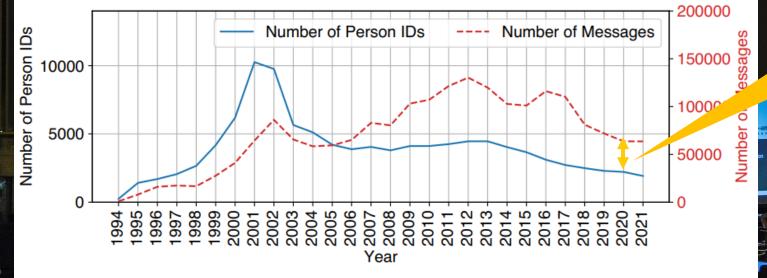






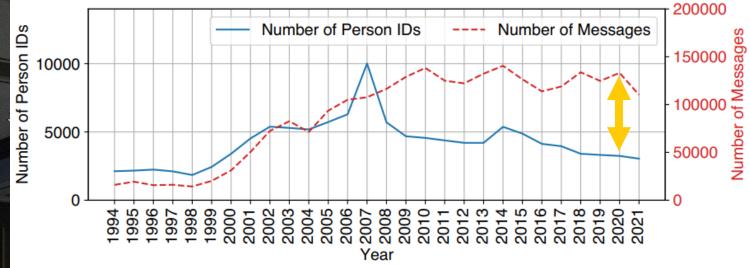


#### (a) IETF

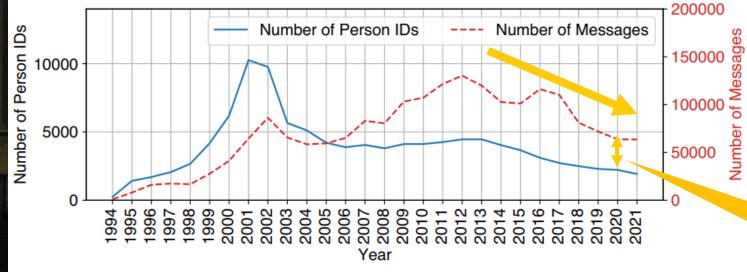


(b) W3C

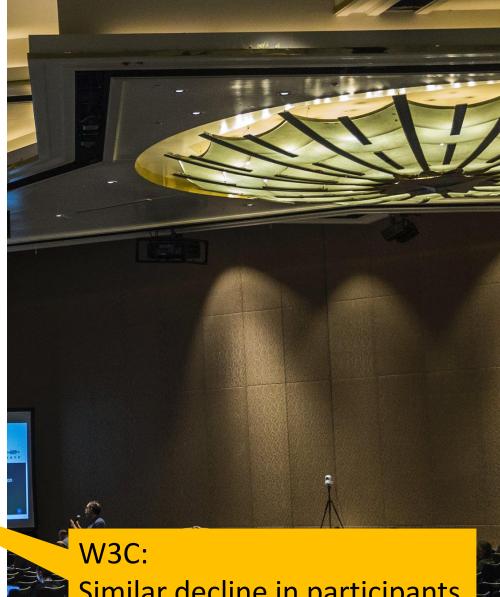




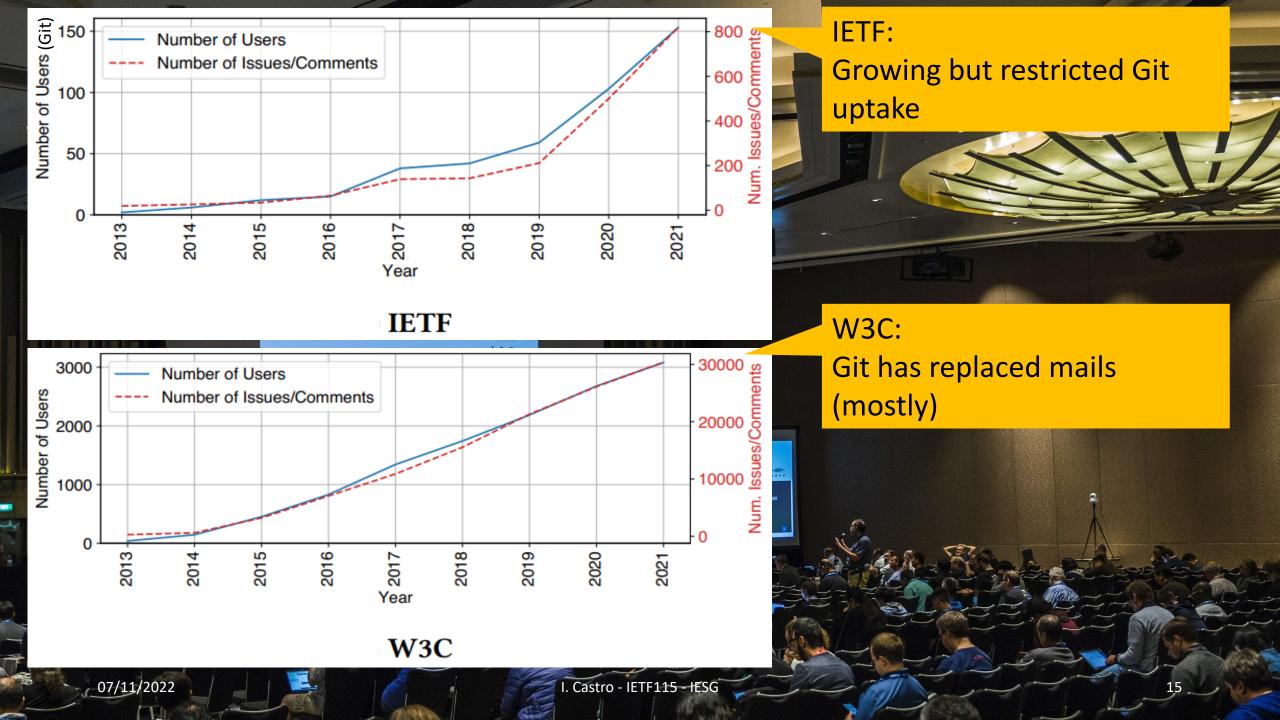
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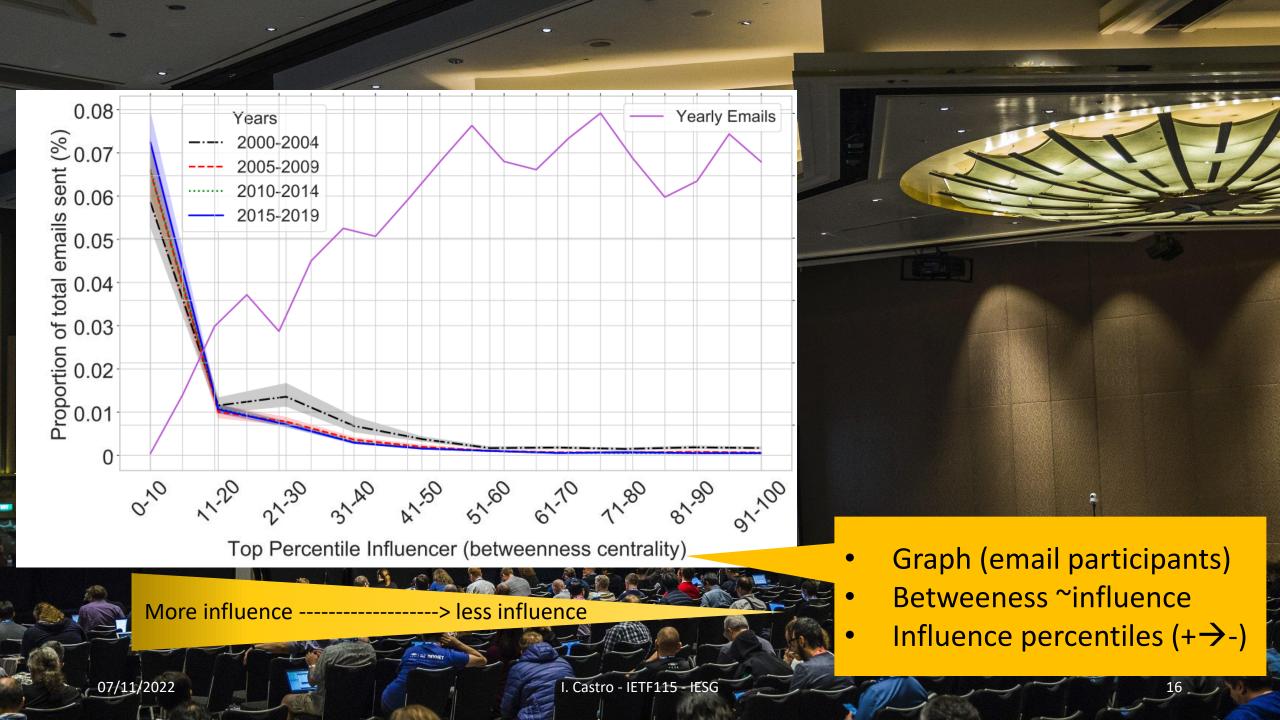


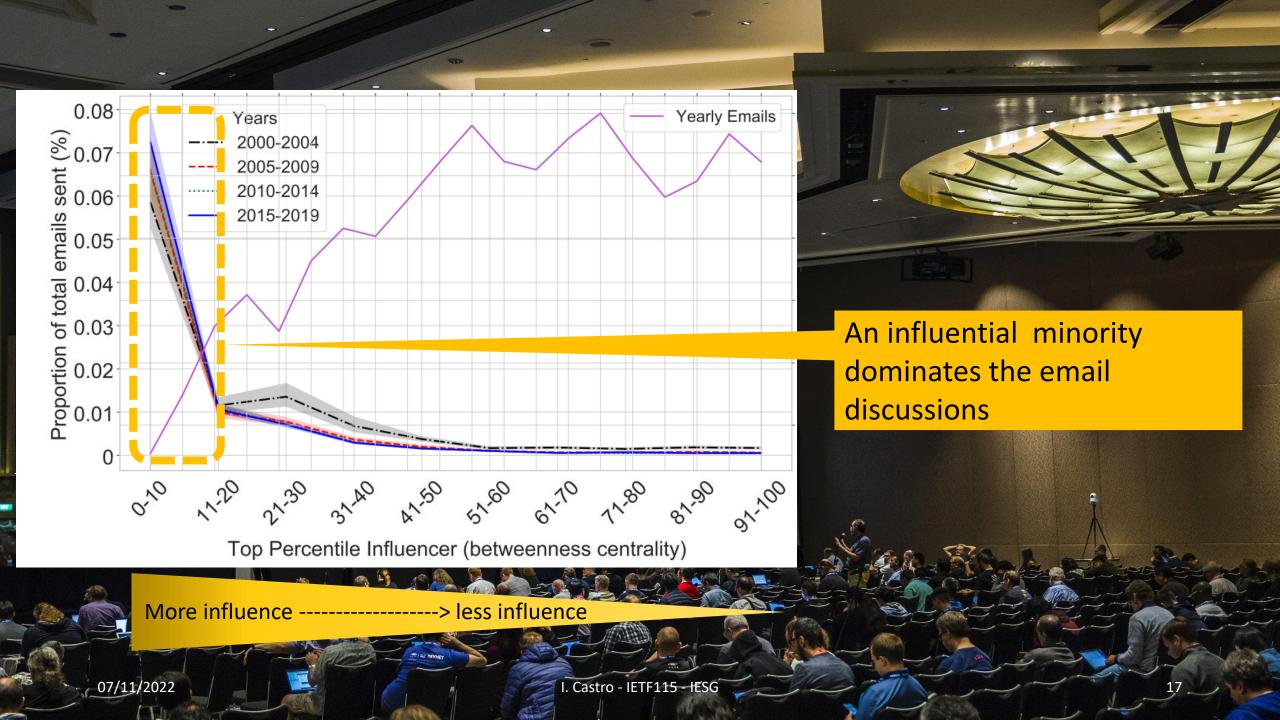
(b) W3C



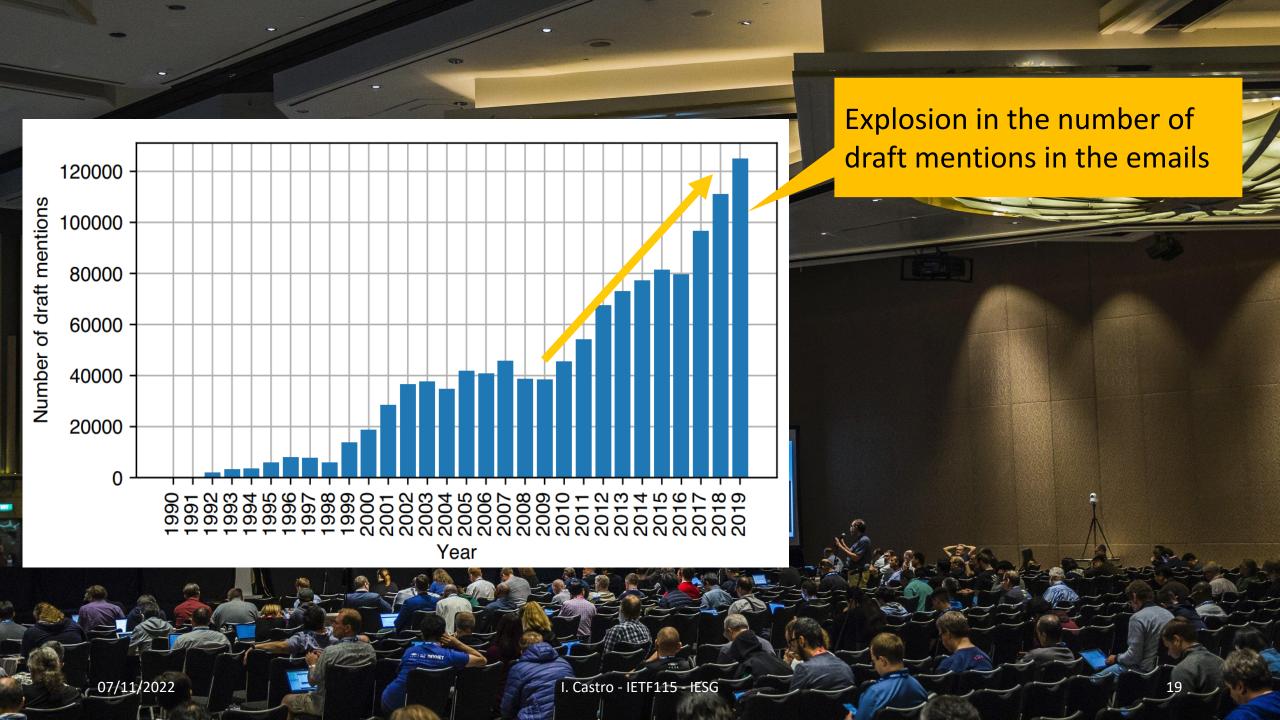
Similar decline in participants
Greater decline in mails











# Are discussions becoming "more complex"?

- "Chatty"
- Multi-area discussions
- More drafts discussed

Draft proposal

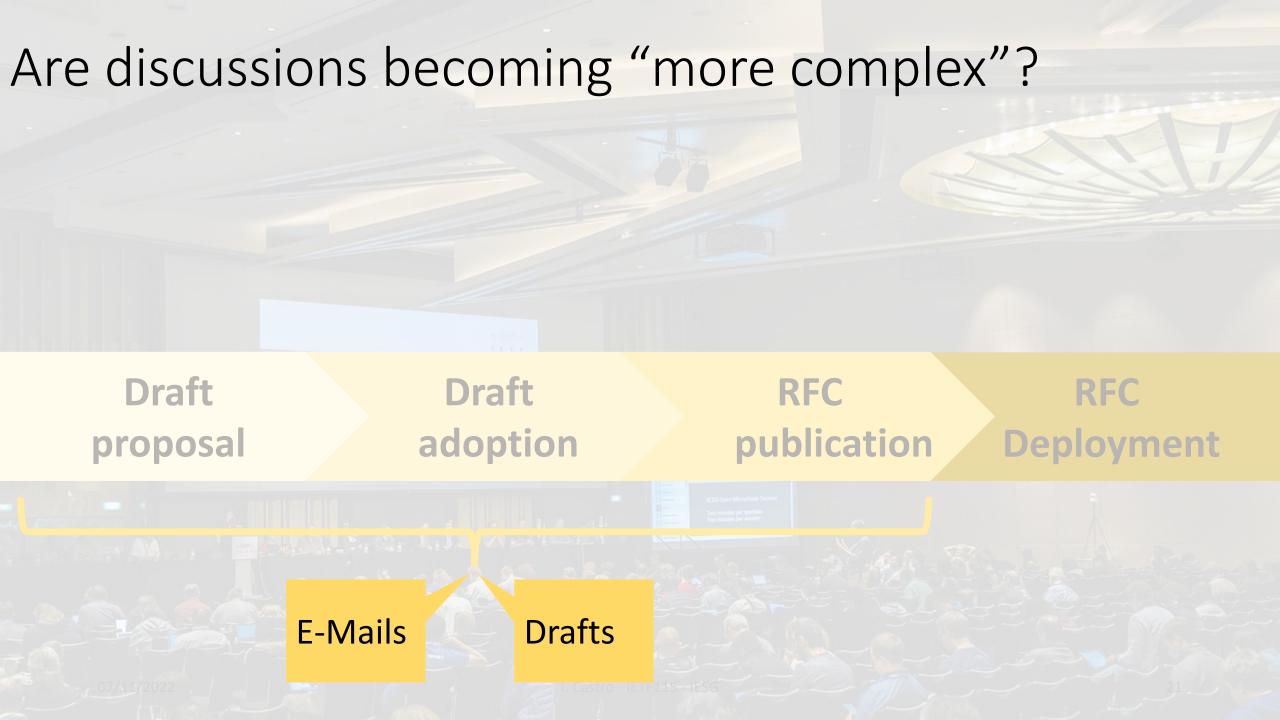
**Draft** adoption

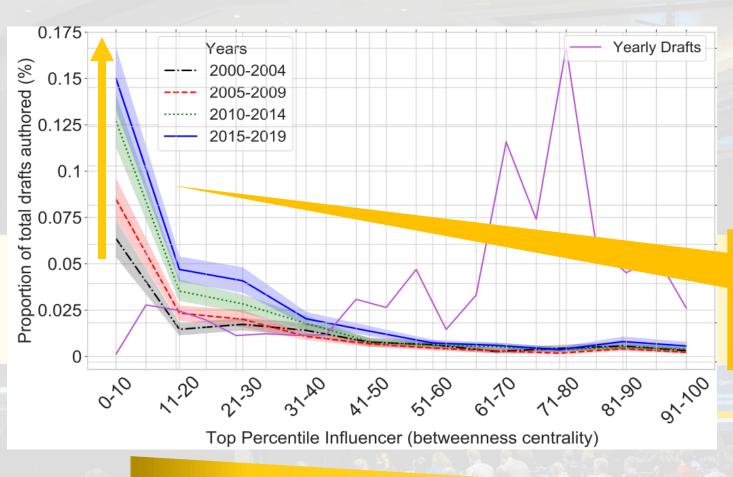
RFC publication

RFC Deployment

E-Mails

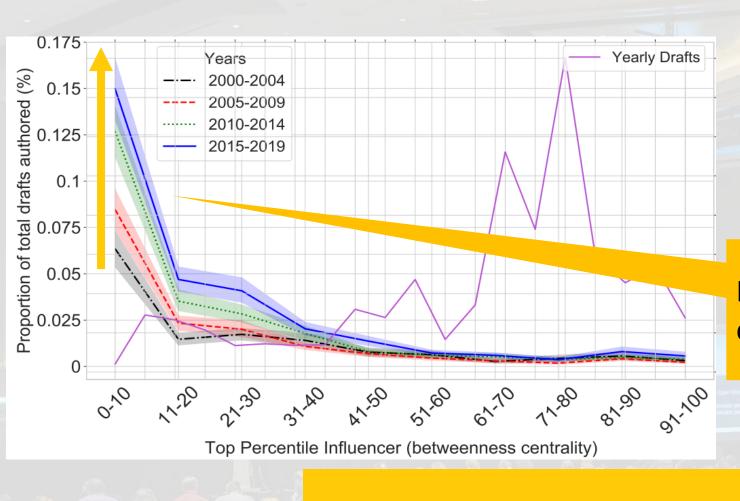
Changes to draft





Influential authors increasingly dominate draft creation

More influence -----> less influence



Influential authors increasingly dominate draft creation

Rise of Influential participants?

### More complex discussions?

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### Harder to publish?

- Publishing takes longer & more drafts
- More affiliations, areas, authors

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Two minutes per question Two minutes per answer



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IESG Open Microphor

Two minutes per questio Two minutes per answer

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ESG Open Microphor

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### **Rise of Influential participants:**

"sherpas" of the standardization process?

Collaborative/community-oriented language is more common in influential participants



#### Next:

- Ground-truth
- Tooling
- IRTF RG: RASP

https://sodestream.github.io



Draft proposal

**Draft** adoption

RFC publication

RFC Deployment

Decision making analysis

Review recommendation tool

Survey on adoption